This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for additional information.

Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

1. REGISTRATION NO. 51-F-0005 **CUSTOMER NO.** 436

FORM APPROVED OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY *(Name and Address, as registered with USDA, include Zip Code)*

U S ARMY CHPPM
MEDICAL/TOXICOLOGY DIVISION
5158 BLACKHAWK RD. MCHB
ABERDEEN PROV GRND, MD 21010
(410)436-3980

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

See Attached Listing

FACILITY LOCATIONS *(sites)*

DEC 0 4 2006

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY *(Attach additional sheets if necessary or use APHIS FORM 7023A)*

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic,analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. *(An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)*	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs		60	30		90
7. Hamsters					
8. Rabbits		42	2	21	65
9. Non-Human Primates					
10. Sheep					
11. Pigs		11			11
12. Other Farm Animals					
13. Other Animals					
Deer mouse			26		26
House mouse			19		19
White-footed mouse		7	92		99

ASSURANCE STATEMENTS

1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

2) Each principal investigator has considered alternatives to painful procedures.

3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). **A summary of all the exceptions is attached to this annual report.** In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.

4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE [redacted] (b)(6), (b)(7)c

NAME & TITLE OF C.E.O. OR INSTITUTIONAL [redacted] (b)(6), (b)(7)c

DATE SIGNED 29NOV06

APHIS FORM 7023 (AUG 91) (Replaces VS FORM 18-23 (Oct 88), which is obsolete

PART 1 - HEADQUARTERS

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for additional information.

Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

1. REGISTRATION NO. 51-F-0005 CUSTOMER NO. 436

FORM APPROVED OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY *(Name and Address, as registered with USDA, include Zip Code)*

U S ARMY CHPPM
MEDICAL/TOXICOLOGY DIVISION
5158 BLACKHAWK RD. MCHB
ABERDEEN PROV GRND, MD 21010
(410)436-3980

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY *(Attach additional sheets if necessary or use this form.)*

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic,analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. *(An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)*	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
Cactus mouse			12		12
Brush mouse			10		10
Eastern chipmunk			1		1
Meadow jumping mouse		1			1
Meadow vole		45			45

ASSURANCE STATEMENTS

1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
2) Each principal investigator has considered alternatives to painful procedures.
3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). **A summary of all the exceptions is attached to this annual report.** In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

DEC 04 2006

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional official)
I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL *(Type or Print)*	DATE SIGNED
[redacted] (b)(6), (b)(7)c	[redacted] (b)(6), (b)(7)c	29 NOV 06

FY2006 APHIS Form 7023 Column E Explanation

1. Registration Number: 51-F-0005 / 436

2. Species (common name) of animals used in the study: Rabbits

3. Number of animals used in this study (in this pain category): 21

4. Explain the procedure producing pain and/or distress.

The goal of this investigation was to determine the acute oral LD50 of HMX and to determine the adverse effects from short-term repetitive oral exposures of HMX via the 14-Day Subacute Test. The HMX was in a corn oil vehicle and administered via gavage using a 13 gauge x 6" intubation tube. Study related effects included lethality from a one-time administration of HMX for the LD50, and sublethal effects from repetitive exposures in the 14-day study. No other substances that could potentially interfere with the interpretation of the results was administered. The LD50 procedure is a lethality study used to determine the number of deaths from a single dose administration. The 14-day study looked at the lethality and other observable signs of repeated dosing. HMX has a very steep lethality slope and there are very few signs except for death. The results of these studies will be used to set exposure guidelines and therefore no analgesics or drugs were used that could effect the outcome of the study. EPA guidelines on the conduct of the study were followed throughout to enable the data to be accepted for regulatory review. Animals on the study that were determined to be moribund were humanely euthanized.

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For Federally mandated testing, see Item 6 below)

a. The nature of the studies precludes the use of totally painless procedures. The goal of this study was to determine the effects from exposure; therefore no other substance (analgesics or drugs) that could potentially interfere with the interpretation of the results could be administered. The observation of the onset, duration and/or reversibility of toxic signs is critical to mechanistic interpretation.

b. To prevent undue suffering, rabbits that appear moribund will be evaluated by the Study Director and the Attending Veterinarian and may be euthanized. One or more of the following clinical signs will be indicative of a moribund animal: listless/lethargic; impaired ambulation, which prevents animals from reaching food or water; excessive weight loss and extreme emaciation (> 20% body weight); convulsive with no signs of abatement; lack of physical or mental alertness; difficult labored breathing; and a prolonged inability to remain upright.

6. What, if any, federal regulations require this procedure? Cite the agency, the code of Federal Regulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102):

[EPA] U.S. Environmental Protection Agency, 2002. Health Effects Test Guidelines OPPTS 870.1100 Acute Oral Toxicity. EPA 712-C-02-190. U.S. Environmental Protection Agency, Prevention, Pesticides and Toxic Substances, Washington D.C.